August 16, 2022

Christer Loftenius
Washington State Department of Ecology
PO Box 47600
Olympia, Washington 98604

Re: Progress Report No. 14, District on the River Redevelopment, July 2022
Sagamore Spokane, LLC; PPCD No. 21200059-32
Facility/Site ID #1523145 and Cleanup Site ID #3509
Project No. 190210

Dear Christer:

This Progress Report has been prepared by Aspect Consulting, LLC (Aspect) for the District on the River Redevelopment at the Hamilton Street Bridge site (Site) as a requirement of Prospective Purchaser Consent Decree (PPCD) No. 21200059-32 between Sagamore Spokane, LLC and the Washington State Department of Ecology (Ecology). The PPCD was signed and executed on January 15, 2021. Section XII of the PPCD requires Sagamore Spokane, LLC (Sagamore) to submit to Ecology a written monthly Progress Report that describes the PPCD required actions completed during the reporting period. This Progress Report No. 14 covers the reporting period of July 5 to August 5, 2022.

1) Progress During Reporting Period

Portions of construction activity that relate to the environmental condition of the Site include:

Sewer. Utility excavation, installation, and backfill activities for a sanitary sewer were completed during this reporting period; sanitary sewer manholes SSMH #5 and SSMH #6, and piping between the two, were installed. A stormwater oil-water separator southwest of SSMH #5 was also installed. Each of these sewer excavations were some of the deepest excavations planned at the Site, and contaminated soil with MGP waste was encountered in the deeper excavation (down to 8 feet deep, which is beneath the 2-foot soil cover). Contaminated soil from utility excavations was segregated and sampled for waste profiling and disposal. Up to 250 tons of contaminated soil exceeded Washington State Dangerous Waste criteria, which requires special handling and disposal protocols (this will be outlined in next month's progress report).

Water Lines. Other utility excavation, installation, and backfill activities for water lines were also initiated during this reporting period. Water lines are installed in very shallow soil (upper couple feet), and no potentially contaminated soils have been observed to date in these excavations.

Western Infiltration Gallery/Swale. Ecology requested additional information on the location of the western infiltration gallery and requested that Aspect observe the excavation for signs of contamination via email on August 2, 2022. Aspect responded by providing Ecology copies of the final Engineering Design Report (Aspect, 2022) figures depicting the area of the western infiltration gallery and confirmed that field screening observations during excavation showed no indicators of contamination via email on August 3, 2022. Aspect then

observed the excavation for the western infiltration gallery during this reporting period as requested by Ecology. The infiltration gallery excavated soils were screened for field indicators of contamination per Section 7.1.2 of the Contaminated Media Management Plan (Aspect, 2022), and no field indicators of contamination were observed.

Eastern Infiltration Gallery/Swale/Berm. Ecology requested additional information on Sagamore's plan to address contamination in the berm of the northeastern stormwater swale via email on August 2, 2022. Aspect responded on behalf of Sagamore that 1) this northeastern swale is outside of the limits of the Site, 2) the infiltration gallery to be installed will not change the location or elevation of infiltration from where it infiltrates currently, and 3) that any work in this vicinity is completed under an independent action via email on August 3, 2022. Aspect then observed excavation for the eastern infiltration gallery (at elevations below the berm), which was completed during this reporting period. Aspect test pit investigation soil samples demonstrated this area (below the berm at the bottom of the swale and infiltration gallery) to be non-contaminated as documented in the Supplemental Soil and Soil Gas Investigation Summary (Aspect, 2020).

Site Security. Ecology requested information on security improvements along the riverbank and in the vicinity of wells MW2-40 and MW2-20 via email on July, 20 2022. Aspect responded with a list of security measures being implemented at the Site on behalf of Sagamore via email on July 25, 2022.

Pile Status Update. Ecology requested an update on the status of micropile installation at the Site on August 1, 2022. Aspect responded in an August 3, 2022 email that the last pile installed at the Site occurred on May 27, 2022 and was a sacrificial test pile. Aspect also confirmed that all installed piles were grouted during installation.

2) Sampling and/or Testing Reports Received

Analytical data for temporary soil stockpiles from the utility excavations for waste profiling are attached.

3) Summary of Deviations

No deviations during this reporting period.

4) Schedule

The micropile production for deep foundations is on standby; Aspect will share the revised construction schedule with Ecology when it is produced by the Contractor.

5) Contact with Other Parties

Sagamore's counsel sent a revised draft of the access agreement to the PLPs' counsel on July 14, 2022. The access agreement is still being negotiated.

6) List of Deliverables and Key Activities Planned for Next Month

Aspect will continue environmental oversight assisting the Contractor with soil management during utility installation, Building 2A subgrade preparation, and micropile installation.

Please let us know if you have any questions.

Sincerely,

Aspect consulting, LLC

Breeyn Greer, PE
Project Engineer
bgreer@aspectconsulting.com

Adam Griffin, PE
Senior Associate Engineer
agriffin@aspectconsulting.com

Attachments: Attachment 1 – Stockpile Analytical Results from Eurofins

References:

Aspect Consulting LLC (Aspect), 2020, Supplemental Soil and Soil Gas Investigation Summary, District on the River Redevelopment, Spokane, WA, June 22, 2020.

Aspect Consulting LLC (Aspect), 2022, Final Engineering Design Report, District on the River Redevelopment, April 26, 2022.

cc: Dave Cook, Aspect Consulting LLC (email only)

Chuck Dubroff, Sagamore Spokane LLC (email only)

Kevin Schafer, Garco Construction (email only)

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eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Tel: (509)924-9200

Laboratory Job ID: 590-18186-1
Client Project/Site: Sagamore

For:
Aspect Consulting
710 Second Avenue
Suite 550
Seattle, Washington 98104

Attn: Breeyn Greer

Authorized for release by:
8/4/2022 4:28:00 PM

Randee Arrington, Lab Director
(509)924-9200
Randee.Arrington@et.eurofinsus.com

Table of Contents

Case Narrative

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Job ID: 590-18186-1

Laboratory: Eurofins Spokane

Narrative

Receipt
The samples were received on 7/28/2022 12:19 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 11.6º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: SS4-1-072822 (590-18186-1), SS3-1-072822 (590-18186-2) and SS3-2-072822 (590-18186-3). The samples are considered acceptable since they were collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method NWTPH-Dx: Detected hydrocarbons appear to be due to creosote or similar product in the following samples: SS4-1-072822 (590-18186-1) and SS3-1-072822 (590-18186-2).

Method NWTPH-Dx: The following samples required a dilution due to the nature of the sample matrix: SS4-1-072822 (590-18186-1) and SS3-1-072822 (590-18186-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010D: The low level initial calibration verification (ICVL) associated with batch 590-37394 recovered above the upper control limit for Lead. The samples associated with this ICV were either 10x spike amount or non-detects for the affected analytes; therefore, the data have been reported.

Method 7471B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 590-37363 and 590-37362 and analytical batch 590-37391 was outside control limits. Sample matrix interference is suspected.

Method 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 590-37363 and 590-37362 and analytical batch 590-37391 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
590-18186-1	SS4-1-072822	Solid	07/28/22 11:00	07/28/22 12:19
590-18186-2	SS3-1-072822	Solid	07/28/22 11:10	07/28/22 12:19

Definitions/Glossary

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample ID: SS4-1-072822

Date Collected: 07/28/22 11:00
Date Received: 07/28/22 12:19

Lab Sample ID: 590-18186-1

Matrix: Solid
Percent Solids: 88.6

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	2300		1300	460	mg/Kg	☼	07/29/22 16:08	07/30/22 03:56	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*41.5 - 162*	*07/29/22 16:08*	*07/30/22 03:56*	*100*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	1200000		5000	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
2-Methylnaphthalene	350000		5000	1600	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
1-Methylnaphthalene	210000		5000	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Acenaphthylene	290000		5000	1700	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Acenaphthene	78000		5000	1300	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Fluorene	220000		5000	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Phenanthrene	800000		5000	1800	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Anthracene	230000		5000	1000	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Fluoranthene	490000		5000	1300	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Pyrene	450000		5000	1900	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Benzo[a]anthracene	180000		5000	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Chrysene	190000		5000	760	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Benzo[b]fluoranthene	190000		5000	1800	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Benzo[k]fluoranthene	84000		5000	1300	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Benzo[a]pyrene	200000		5000	2100	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Indeno[1,2,3-cd]pyrene	78000		5000	1500	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Dibenz(a,h)anthracene	22000		5000	1400	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100
Benzo[g,h,i]perylene	80000		5000	1200	ug/Kg	☼	07/29/22 11:36	07/29/22 20:45	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*74*		*44 - 120*	*07/29/22 11:36*	*07/29/22 20:45*	*100*
2-Fluorobiphenyl (Surr)	*88*		*47 - 120*	*07/29/22 11:36*	*07/29/22 20:45*	*100*
p-Terphenyl-d14	*98*		*54 - 132*	*07/29/22 11:36*	*07/29/22 20:45*	*100*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	7100		450	190	mg/Kg	☼	07/29/22 10:28	08/02/22 07:49	40
Residual Range Organics (RRO) (C25-C36)	6400		1100	220	mg/Kg	☼	07/29/22 10:28	08/02/22 07:49	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*1178*	*S1+*	*50 - 150*	*07/29/22 10:28*	*08/02/22 07:49*	*40*
n-Triacontane-d62	*332*	*S1+*	*50 - 150*	*07/29/22 10:28*	*08/02/22 07:49*	*40*

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		5.3	2.1	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5
Barium	150		5.3	1.4	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5
Cadmium	0.76	J	4.2	0.25	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5
Chromium	18		5.3	0.75	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5
Lead	74	^1+	13	6.2	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5
Selenium	ND		21	13	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5
Silver	1.2	J	5.3	1.2	mg/Kg	☼	08/03/22 06:55	08/03/22 16:58	5

Client Sample ID: SS4-1-072822

Lab Sample ID: 590-18186-1
Date Collected: 07/28/22 11:00
Matrix: Solid
Date Received: 07/28/22 12:19
Percent Solids: 88.6

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	390	F1 F2	50	3.6	ug/Kg	☼	08/03/22 07:40	08/03/22 13:29	1

Client Sample ID: SS3-1-072822

Lab Sample ID: 590-18186-2
Date Collected: 07/28/22 11:10
Matrix: Solid
Date Received: 07/28/22 12:19
Percent Solids: 89.1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	640	J	1300	480	mg/Kg	☼	07/29/22 16:08	07/30/22 04:18	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*41.5 - 162*	*07/29/22 16:08*	*07/30/22 04:18*	*100*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	55000		5100	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
2-Methylnaphthalene	20000		5100	1600	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
1-Methylnaphthalene	13000		5100	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Acenaphthylene	62000		5100	1700	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Acenaphthene	11000		5100	1300	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Fluorene	23000		5100	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Phenanthrene	100000		5100	1900	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Anthracene	46000		5100	1000	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Fluoranthene	160000		5100	1300	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Pyrene	170000		5100	1900	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Benzo[a]anthracene	89000		5100	1100	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Chrysene	92000		5100	780	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Benzo[b]fluoranthene	140000		5100	1800	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Benzo[k]fluoranthene	58000		5100	1300	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Benzo[a]pyrene	130000		5100	2200	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Indeno[1,2,3-cd]pyrene	66000		5100	1500	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Dibenz(a,h)anthracene	17000		5100	1400	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100
Benzo[g,h,i]perylene	68000		5100	1200	ug/Kg	☼	07/29/22 11:36	07/29/22 21:08	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*87*		*44 - 120*	*07/29/22 11:36*	*07/29/22 21:08*	*100*
2-Fluorobiphenyl (Surr)	*93*		*47 - 120*	*07/29/22 11:36*	*07/29/22 21:08*	*100*
p-Terphenyl-d14	*91*		*54 - 132*	*07/29/22 11:36*	*07/29/22 21:08*	*100*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	2100		420	180	mg/Kg	☼	07/29/22 10:28	08/02/22 08:09	40
Residual Range Organics (RRO) (C25-C36)	4400		1100	210	mg/Kg	☼	07/29/22 10:28	08/02/22 08:09	40

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*316*	*S1+*	*50 - 150*	*07/29/22 10:28*	*08/02/22 08:09*	*40*
n-Triacontane-d62	*795*	*S1+*	*50 - 150*	*07/29/22 10:28*	*08/02/22 08:09*	*40*

Client Sample Results

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Client Sample ID: SS3-1-072822

Date Collected: 07/28/22 11:10
Date Received: 07/28/22 12:19

Lab Sample ID: 590-18186-2

Matrix: Solid
Percent Solids: 89.1

Method: 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12**		4.9	2.0	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5
Barium	**220**		4.9	1.3	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5
Cadmium	**0.93**	**J**	4.0	0.23	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5
Chromium	**19**		4.9	0.70	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5
Lead	**110**	**^1+**	12	5.8	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5
Selenium	ND		20	12	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5
Silver	ND		4.9	1.1	mg/Kg	☼	08/03/22 06:55	08/03/22 17:03	5

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**680**		52	3.7	ug/Kg	☼	08/03/22 07:40	08/03/22 13:44	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 590-37311/1-A
Matrix: Solid
Analysis Batch: 37315

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37311

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		5.0	1.8	mg/Kg		07/29/22 16:07	07/29/22 20:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*41.5 - 162*	*07/29/22 16:07*	*07/29/22 20:07*	*1*

Lab Sample ID: LCS 590-37311/4-A
Matrix: Solid
Analysis Batch: 37315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37311

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline			50.2	53.0		mg/Kg		105	74.4 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*41.5 - 162*

Lab Sample ID: LCSD 590-37311/5-A
Matrix: Solid
Analysis Batch: 37315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 37311

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline			50.2	53.2		mg/Kg		106	74.4 - 124	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*41.5 - 162*

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 590-37299/1-A
Matrix: Solid
Analysis Batch: 37303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		10	2.2	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
2-Methylnaphthalene	ND		10	3.1	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
1-Methylnaphthalene	ND		10	2.2	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Acenaphthylene	ND		10	3.3	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Acenaphthene	ND		10	2.5	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Fluorene	ND		10	2.2	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Phenanthrene	ND		10	3.6	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Anthracene	ND		10	2.0	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Fluoranthene	ND		10	2.5	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Pyrene	ND		10	3.8	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Benzo[a]anthracene	ND		10	2.1	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Chrysene	ND		10	1.5	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Benzo[b]fluoranthene	ND		10	3.5	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Benzo[k]fluoranthene	ND		10	2.5	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Benzo[a]pyrene	ND		10	4.2	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Indeno[1,2,3-cd]pyrene	ND		10	3.0	ug/Kg		07/29/22 11:36	07/29/22 16:03	1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 590-37299/1-A
Matrix: Solid
Analysis Batch: 37303

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		10	2.8	ug/Kg		07/29/22 11:36	07/29/22 16:03	1
Benzo[g,h,i]perylene	ND		10	2.4	ug/Kg		07/29/22 11:36	07/29/22 16:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*44*		*44 - 120*	*07/29/22 11:36*	*07/29/22 16:03*	*1*
2-Fluorobiphenyl (Surr)	*63*		*47 - 120*	*07/29/22 11:36*	*07/29/22 16:03*	*1*
p-Terphenyl-d14	*89*		*54 - 132*	*07/29/22 11:36*	*07/29/22 16:03*	*1*

Lab Sample ID: LCS 590-37299/2-A
Matrix: Solid
Analysis Batch: 37303

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Naphthalene	267	193		ug/Kg		72	45 - 120
2-Methylnaphthalene	267	207		ug/Kg		78	48 - 120
1-Methylnaphthalene	267	204		ug/Kg		77	52 - 120
Acenaphthylene	267	226		ug/Kg		85	52 - 120
Acenaphthene	267	225		ug/Kg		84	53 - 120
Fluorene	267	242		ug/Kg		91	55 - 120
Phenanthrene	267	262		ug/Kg		98	57 - 121
Anthracene	267	249		ug/Kg		93	51 - 120
Fluoranthene	267	272		ug/Kg		102	63 - 127
Pyrene	267	259		ug/Kg		97	50 - 125
Benzo[a]anthracene	267	261		ug/Kg		98	61 - 131
Chrysene	267	253		ug/Kg		95	57 - 127
Benzo[b]fluoranthene	267	243		ug/Kg		91	61 - 127
Benzo[k]fluoranthene	267	279		ug/Kg		105	55 - 127
Benzo[a]pyrene	267	250		ug/Kg		94	60 - 126
Indeno[1,2,3-cd]pyrene	267	256		ug/Kg		96	54 - 128
Dibenz(a,h)anthracene	267	246		ug/Kg		92	60 - 121
Benzo[g,h,i]perylene	267	256		ug/Kg		96	58 - 129

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*75*		*44 - 120*
2-Fluorobiphenyl (Surr)	*90*		*47 - 120*
p-Terphenyl-d14	*109*		*54 - 132*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 590-37286/1-A
Matrix: Solid
Analysis Batch: 37304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (DRO) (C10-C25)	ND		10	4.2	mg/Kg		07/29/22 09:06	07/29/22 14:13	1
Residual Range Organics (RRO) (C25-C36)	ND		25	5.0	mg/Kg		07/29/22 09:06	07/29/22 14:13	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 590-37286/1-A
Matrix: Solid
Analysis Batch: 37304

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37286

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	07/29/22 09:06	07/29/22 14:13	1
n-Triacontane-d62	91		50 - 150	07/29/22 09:06	07/29/22 14:13	1

Lab Sample ID: LCS 590-37286/2-A
Matrix: Solid
Analysis Batch: 37304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (DRO) (C10-C25)	66.7	61.4		mg/Kg		92	50 - 150
Residual Range Organics (RRO) (C25-C36)	66.7	67.8		mg/Kg		102	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	91		50 - 150
n-Triacontane-d62	102		50 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 590-37370/2-A
Matrix: Solid
Analysis Batch: 37394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.3	0.50	mg/Kg		08/03/22 06:54	08/03/22 15:45	1
Barium	ND		1.3	0.34	mg/Kg		08/03/22 06:54	08/03/22 15:45	1
Cadmium	ND		1.0	0.059	mg/Kg		08/03/22 06:54	08/03/22 15:45	1
Chromium	ND		1.3	0.18	mg/Kg		08/03/22 06:54	08/03/22 15:45	1
Lead	ND	^1+	3.0	1.5	mg/Kg		08/03/22 06:54	08/03/22 15:45	1
Selenium	ND		5.0	3.0	mg/Kg		08/03/22 06:54	08/03/22 15:45	1
Silver	ND		1.3	0.29	mg/Kg		08/03/22 06:54	08/03/22 15:45	1

Lab Sample ID: LCS 590-37370/1-A
Matrix: Solid
Analysis Batch: 37394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	107		mg/Kg		107	80 - 120
Barium	100	104		mg/Kg		104	80 - 120
Cadmium	50.0	52.9		mg/Kg		106	80 - 120
Chromium	50.0	53.7		mg/Kg		107	80 - 120
Lead	50.0	55.1	^1+	mg/Kg		110	80 - 120
Selenium	100	108		mg/Kg		108	80 - 120
Silver	5.00	5.22		mg/Kg		104	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 590-37362/9-A
Matrix: Solid
Analysis Batch: 37391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		50	3.6	ug/Kg		08/03/22 07:40	08/03/22 13:27	1

Lab Sample ID: LCS 590-37362/8-A
Matrix: Solid
Analysis Batch: 37391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37362

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			200	201		ug/Kg		101	80 - 120		

Lab Sample ID: 590-18186-1 MS
Matrix: Solid
Analysis Batch: 37391

Client Sample ID: SS4-1-072822
Prep Type: Total/NA
Prep Batch: 37362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	390	F1 F2	202	657	F1	ug/Kg	☼	135	80 - 120		

Lab Sample ID: 590-18186-1 MSD
Matrix: Solid
Analysis Batch: 37391

Client Sample ID: SS4-1-072822
Prep Type: Total/NA
Prep Batch: 37362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	390	F1 F2	198	533	F1 F2	ug/Kg	☼	74	80 - 120	21	20

Lab Sample ID: 590-18186-1 DU
Matrix: Solid
Analysis Batch: 37391

Client Sample ID: SS4-1-072822
Prep Type: Total/NA
Prep Batch: 37362

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Mercury	390	F1 F2		376		ug/Kg	☼			3	20

Lab Chronicle

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Client Sample ID: SS4-1-072822
Date Collected: 07/28/22 11:00
Date Received: 07/28/22 12:19

Lab Sample ID: 590-18186-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37310	07/29/22 15:23	NMI	EETNW SP

Client Sample ID: SS4-1-072822
Date Collected: 07/28/22 11:00
Date Received: 07/28/22 12:19

Lab Sample ID: 590-18186-1
Matrix: Solid
Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.663 g	10 mL	37311	07/29/22 16:08	JSP	EETNW SP
Total/NA	Analysis	NWTPH-Gx		100	0.86 mL	43 mL	37315	07/30/22 03:56	JSP	EETNW S
Total/NA	Prep	3550C			3.37 g	2 mL	37299	07/29/22 11:36	NMI	EETNW S
Total/NA	Analysis	8270E SIM		100			37303	07/29/22 20:45	NMI	EETNW S
Total/NA	Prep	3550C			15.22 g	5 mL	37286	07/29/22 10:28	NMI	EETNW S
Total/NA	Analysis	NWTPH-Dx		40			37332	08/02/22 07:49	NMI	EETNW S
Total/NA	Prep	3050B			1.33 g	50 mL	37370	08/03/22 06:55	AMB	EETNW S
Total/NA	Analysis	6010D		5			37394	08/03/22 16:58	AMB	EETNW S
Total/NA	Prep	7471B			0.56 g	50 mL	37362	08/03/22 07:40	AMB	EETNW S
Total/NA	Analysis	7471B		1			37391	08/03/22 13:29	AMB	EETNW S

Client Sample ID: SS3-1-072822
Date Collected: 07/28/22 11:10
Date Received: 07/28/22 12:19

Lab Sample ID: 590-18186-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			37310	07/29/22 15:23	NMI	EETNW SP

Client Sample ID: SS3-1-072822
Date Collected: 07/28/22 11:10
Date Received: 07/28/22 12:19

Lab Sample ID: 590-18186-2
Matrix: Solid
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.383 g	10 mL	37311	07/29/22 16:08	JSP	EETNW SP
Total/NA	Analysis	NWTPH-Gx		100	0.86 mL	43 mL	37315	07/30/22 04:18	JSP	EETNW S
Total/NA	Prep	3550C			3.30 g	2 mL	37299	07/29/22 11:36	NMI	EETNW S
Total/NA	Analysis	8270E SIM		100			37303	07/29/22 21:08	NMI	EETNW S
Total/NA	Prep	3550C			15.87 g	5 mL	37286	07/29/22 10:28	NMI	EETNW S
Total/NA	Analysis	NWTPH-Dx		40			37332	08/02/22 08:09	NMI	EETNW S
Total/NA	Prep	3050B			1.42 g	50 mL	37370	08/03/22 06:55	AMB	EETNW S
Total/NA	Analysis	6010D		5			37394	08/03/22 17:03	AMB	EETNW S
Total/NA	Prep	7471B			0.54 g	50 mL	37362	08/03/22 07:40	AMB	EETNW S
Total/NA	Analysis	7471B		1			37391	08/03/22 13:44	AMB	EETNW S

Laboratory References:
EETNW SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Accreditation/Certification Summary

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Laboratory: Eurofins Spokane

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C569	01-06-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: Aspect Consulting
Project/Site: Sagamore

Job ID: 590-18186-1

Method	Method Description	Protocol	Laboratory
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC/MS)	NWTPH	EETNW SPK
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EETNW SPK
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	EETNW SPK
6010D	Metals (ICP)	SW846	EETNW SPK
7471B	Mercury (CVAA)	SW846	EETNW SPK
Moisture	Percent Moisture	EPA	EETNW SPK
3050B	Preparation, Metals	SW846	EETNW SPK
3550C	Ultrasonic Extraction	SW846	EETNW SPK
5035	Closed System Purge and Trap	SW846	EETNW SPK
7471B	Preparation, Mercury	SW846	EETNW SPK

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EETNW SPK = Eurofins Spokane, 11922 East 1st Ave, Spokane, WA 99206, TEL (509)924-9200

Eurofins Spokane
11922 East 1st Ave
Spokane, WA 99206
Phone 509-924-9200 Fax. 509-924-9290

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: BMG	Lab PM: Arrington, Randee E	Carrier Tracking No(s):	COC No: 590-7704-2247 1
Client Contact: Breeyn Greer	Phone: 612 232 7343	E-Mail: Randee.Arrington@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Aspect Consulting	PWSID:			Job #: Aspect PN 190210
Address: 710 Second Avenue Suite 550	Due Date Requested: 8/3			
City: Seattle	TAT Requested (days): 4			
State, Zip: WA, 98104	Compliance Project: Δ Yes (A) No			
Phone: 206-812(Tel)	PO #: Purchase Order not required			
Email: bgreer@aspectconsulting.com	WO #: Aspect PN 190210			
Project Name: Sagamore	Project #: 59002065			
Site: 111 N Erie St	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7471B, 8270E_SIM, NWTPH_Dx	NWTPH_Gx_MS Gx by GCMS	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	F		
SS4-1-072822	7/28	1100	C	Solid			X	X		
SS3 1-072822	↓	1110	C	Solid			X	X		
SS3-2-072822	↓	1120	C	Solid						HOLD
				Solid						
				Solid						
				Solid						

590-18186 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months

Deliverable Requested: I, II, III, IV Other (specify) EDD

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/28/22 1215	Aspect			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/28/22 12:19	Company EET SPK

Custody Seals Intact. Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: 11.6°C corr 11.0°C

Login Sample Receipt Checklist

Client: Aspect Consulting

Job Number: 590-18186-1

Login Number: 18186
List Number: 1
Creator: Vaughan, Madison 1

List Source: Eurofins Spokane

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	